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AIBE KAZUHIKO And the contract of the contract of

(54) NEW SYNTHETIC SUBSTRATE FOR MEASUREMENT OF ACTIVITY HAVING CHROMOPHORE OF FLUOROPHORE TO MATRIX METALLOPROTEASE

(57) Abstract:

suitable for rapid, sensitive MMP assay system, etc., capable of reaction product. carrying out multi-treatment by including a specific chemical structure.

SOLUTION: This compound is represented by formula I [Z is a protective group of N terminal; Y is a chromophor or a fluorophore; B is a peptide residue containing one or more amino acid residues hardly ingested with aminopeptidase, C is a peptide residue comprising an amino acid residue other than the amino acid residues hardly ingested with aminopeptidase], e.g.

Suc-Lys-Pro-Leu-Gly-Leu-Phe-Ala-Arg-MCA (MCA is 4-methyl-coumarin-7-yl-amide). Furthermore, activity of MMP and MMP containing double digesting process aminopeptidase are preferably measured by using the synthetic substrate. The synthetic PROBLEM TO BE SOLVED: To obtain a new substrate is obtained by reacting, e.g. a synthetic substrate necessary for screening of compound of formula II with a compound of a matrix metalloprotease (MMP) inhibitor and formula III in the presence of a condensing simple and highly agent and then deprotecting the resultant

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